ABSTRACT OF THE DISCLOSURE

A method for preparing a membrane to be assembled in a membrane, electrode assembly is disclosed comprising the step of swelling an ion-conducting membrane in a liquid containing at least one solvent or to an atmosphere containing the vapor phase of at least one solvent by controlling the content of the solvent in conducting membrane. Further, a method for manufacturing a membrane electrode assembly using a ion conducting membrane is disclosed, comprising the steps of: providing a ion conducting membrane in a pre-swollen state; coating of the ion conducting membrane on both sides with an electrode layer to form a sandwich; and hot-pressing the sandwich to form an ion conducting bonding of the afore-mentioned layers of the sandwich. Furthermore, a membrane electrode assembly is disclosed comprising a hot pressed sandwich comprising an electrode layer, a ion conducting membrane again an electrode layer, thereby using the conducting membrane in its pre-swollen status prior to the hot-pressing.